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MINES, MINING, LOCAL STOCKS AND COPPER

Future of the Metal Market Appears Rosy To Copper Producers

With the Price of Copper Steadily Going Up, Many Autobrities Mining Expert Visits Pinal Are Predicting That It Will Soon Be Above Thirty Cents-Production in Every Big Camp At a High Mark With Indications That Every Effort Will Be Bent to Increase Same.

Promotions in the State of Arizona Are Many and Are Taking Great amounts of Money for Development Purposes-Every the verge of a genuine "boom" is the Section Has Its New Companies, and Bisbee Appears to Be mining expert for the non-promotion Last, But Not Least, to Bid for the Gamblers' Luck.

With the price of metal gradually mounting and indications pointing to still further advance, thereappears little cause for worry in the big producing Mr. Coote, and during his stay in the still further advance, thereappears little cause for worry in the big producing district made a close study of gencamps of the county and surely no cause for anxiety in promotion circles eral conditions. He is one of the most where there appears to be a golden harvest; some of which is being planted in the ground and, probably, some being planted in the historical piece of

Production at every camp in the country is on an immense scale and, instead of decreasing, is rising. Word from Anaconda, from Bingham, from Davis says, in part: Jerome, Globe and Ray and the many other copper centers, as well as from the Warren District and from Cananez, points to a record production for the that while Ray is by no means a new month of October.

Inspiration, at Miami, for October produced nearly 12,000,000 pounds, Utah Copper about 21,000,000 and there are promises that with an increased capacity which will soon be in operation this amount will be greatly increased. The Copper Queen smelter, last month produced 16,000,000 pounds, the Calumet and Arizona 8,000,000 pounds and the Cananea Consolidated 6,000,000.

The natural question is, 'how long will it last'?

Men of brains and ability in the east, the sellers and markets of American products both at home and abroad appear to be figuring on at least eighteen months more of the European war. In some quarters it is estimated that it will not have been concluded inside of two years. Copper must be had for many uses and with prosperity in the United States it must follow that copper will go more and more into domestic uses than ever before.

J. P. Morgan and Company is now floating a \$200,000,000 bond issue for the allied governments which assures the success of the promotion. Russia may be loaned another hundred million. All of this money, \$400,000,000 will be spent in America for products made in the United States. Wages have been increased, the worker and the capitalist is affluent and each demands day, all operations running as smoothmore of the necessities and more of the luxuries of life. Copper, most certainly, will not suffer in these wants.

It is very probable, judging from tabulations of exports of copper that the metal is more and more entering into the general channels of than at any time in many years. Every industry is demanding the metal. Electric supply companies, wire manufacturers of copper, machinery builders and a myriad of other factories demand and need copper. The market is overbid and the remarkable feature is the fact that the red metal is not now selling far above thirty cents. But for the organization of the producers in the country it is very possible that such would be the case.

ON PROMOTIONS.

It would be interesting if some statistician, with a nack for hard work and investigation, could compile a table showing the number of new flotations and the amount of money which the public has contributed to them.

In Arizona, alone, this sum would reach into many million.s

Among Jerome, Oatman, Pinal County, the Ajo region, Miami, Globe, and now Greenlee county, the amount of money which has been subscribed for the development of copper properties and more is going to be subscribed. Some, of course, will make good. Others may and will fail. In the aggregate, however, the period will be one to look back upon as the greatest from a point of mine development that the Southwest and particularly Arizona, has ever experienced. Some people, of course, will have nicely printed certificates, of stock which they may use to paper their woodsheds with. Others will be able to rest on the fruits of their good fortune and think back upon the largess of Arizona's wonderland of undeveloped resources.

THE WARREN DISTRICT.

What was forecasted some months ago by the Review will soon be seen; namely, a period of development outside of the known copper region of the Warren District. Three companies are about to operate. The Louisana-Arizona Copper Company has purchased claims in Tombstone Canyon and had been penetrated, and when I was soon will have stock f or sale. It is understood the backers are Texas bankers and local men. Then there is the Bisbee Copper Mining and Development tween the dacite and the schist. The Company and the organization, of which little is as yet known, which will of the district. The Calumet worksoon undertake to develop about 1200 acres of mineral land west and south- ings are practically due north of the west of the Wolverine and White Tail Deer country. It is possible that something big awaits their prospecting of the ground at considerable depth. MUCH WORK GOING ON.

Though the local mines have a limit of production—the smelter and refining capacity—they are making lots of copper and are developing an im- direct line with the Calumet stopes to averaging above sixteen per cent copmense tonnage of ore. Their progress in shafts and in ground which, heretofore, has been unproductive is one of the many bright spots in present central block of ground is surrounded day mining history in the camp. White Tail Deer, Dallas, Wolverine leasers of the Ray Hercules and Ray Consoliand several other finds would increase the faith of the local man in the dated. The drill-rig is operating near future of the District many times should they be counted in detail.

Adams, the New York correspondent of the Boston News Bureau, writing Ray Consolidated, it appears as though under the headline of Pithy Personalities, has the following to say of the the company has a splendid prospect

"James Douglas, president of Phelps, Dodge & Co., and 78 years young, ers about three claims. The total acre- go out in a few days each stockholder "James Douglas, president of Paeips, Dodge & Co., and is years young, age of its holding is 170. Another will receive a short statement. Some but ill, is one of the captains of industry who have sons upon whom they can churn drill outfit will soon be in oper- important and startling facts and figdepend in time of need. Walter Douglas is temporarily taking the place of ation. In the meantime, directly south the elder. Like all the Phelps-Dodge people he looks for continued strength of its ground the Ray Hercules is in the copper metal market. Copper has astonished the world by advancing to heights undreamed of before the Hollenzollerns sent forth their ulti-(Continued on Page 8)

County Metropolis and Predicts that Boom Will Soon Strike the Region.

RAY, Arizona, Nov. 11.- That the copper camp at Ray, Arizona, is on brokerage house of A. W. Coote, in Los Angeles. Mr. Davis has just completed a personal investigation of the central zone of the Ray district, for conservative and careful mine investigators in the southwest, and has for years been a constant contributor to a number of the most influential minng and technical publications in the United States. Relative to Ray, Mr

"I have seen many new mining camps in the making, and must say camp, it is showing unmistakeable signs of a boom, which should not be long in coming. The enormous pro duction of the Ray Consolidated has long kept the name of the camp before the public, and with the Ray Hercules planning to enter the ranks of the big producers in the near future, and other companies starting active devel-opment, the district is daily receiving more attention

"Ray Conoslidated is a great mine and bids fair to continue to be a great mine for a long time to come. I was particularly impressed by the machine like precision of all operations con-ducted by this big company, by the excellence of all its mining equipment, buildings, and the care which is being aken of its employes. Nowhere could tons of ore daiyl is handled with less confusion than is shown by many companies handling less than 25 tons per ly as a high-priced chronometer. The ore reserves of the company are al-

"Ray Hercules is a property which company is reticent about giving out information, and while some figures have been given out which estimate 3,-000,000 to 4,000,000 tons of ore in sight, the general impression among Ray mining men is that it has much more than 10,000,000 tons in sight, some of which is very high grade ore. The been any toundation for the story," he main working shaft. No. 1, is now down declared. about 700 feet, and has cut through some 400 feet of highly oxidized schistose matter containing material, every small piece, when broken, showing the fluidal foliation zones to contain sheets of native copper, some of which are not much thicker than gold leaf. In other places the copper is more massive, and the sheets are fully an eighth of an inch in thickness. Very little is being said about this rich find, and there is some belief in Ray that the insiders' are quietly purchasing all the stock they can secure at prevailing and without unduly exciting the mar-

Arizona Ray is another company which is attracting attention. Its consulting engineer and manger, is Edmund Hiatt, for six years chief engineer of the Ray Consolidated, and who played a large part in its development. Under his direction a churn drill is now working in a portion of this ground, but about 500 feet from where the Ray Consolidated is extracting very rich carbonate ore from its Calumet claim. The drill is now down case.' about 165 feet. The dacite capping on the ground the drill was in the conglomerate which usually lies bedrill-rig of the Arizona Ray, and the ore-bearing schist throughout this section is in blanket formation, extending pend entire yulpWvneinvivbgkqjzfifizfi north and south, and dripping down the north, and the northern drill holes put down by the Ray Hercules. Its on three sides by the proved territory the extreme western end, and as the been developed still to the east of the of developing pay copper underneath management of Phelps, Dodge Company and of John D. Ryan, of Anaconda: of developing pay copper under this entire block of ground, which cov-

There is much activity along this the first of next year. (Continued on Page Six)

JEROME, Nov. 11.- Reports that rent on Tuesday of this eek, are flatly inary preparations for the develop section of denied by local Green Monster off- ment work that will be under way in wealth. cials. They deny that they have any the course of a week or ten days. assurances that the negotiations are Superintendent Dave Morgan will Top, Weaver, Camp Wood, Big Bug. trending toward a consummation, probably be in personal charge on Lynx Creek, McCabe, Verde, Conthough all have hopes that the deal the Combination ground tomorrow, gress, Hassayampa and other dis-President Douglas admitted himself can be made. The details are in the His contract with the Combination tricts each have a pull of their own, wholly at a loss to understand the hands of Will L. Clark, who is now began on November 1 but it became and back of that pull is the mineral origin of the story, published as a in the east conferring with represen- necessary for him to remain at the wealth of a county having few equals act nearly everywhere in the country tatives of the English estate which U. V. Extension several days longer as a mining proposition—a country

One story given wide circulation was that Leroy Anderson, attorney the various groups included in the cream of mining investment. men in the industry, was to succeed for the Green Monster company, had Combination can be announced till Anderson, President Neill Bailey and consummated or is on the point of Monster stock from around \$4 to near-

> ly \$7 a share. It is understood that if the deal is made the Green Monster company the market around \$7 a share or perhaps higher. This will place the company in an unusually strong finanthing like \$350,000 in the treasury. the Combination property that carry the Little Daisy mine is doing for the The proposed purchase price of the Copper Chief is around \$1,250,000.

Moreover, the Green Monster comducing mine as well as of its present DIAMOND DRILLS TO acreage with its undougted possibilities. Few persons know just how good the Copper Chief is. Recently was struck on the 250-foot level. A width of the body is not known. This gives the Copper Chief a much greater value than it had a few months ago.

The Copper Chief cyanide mill is A conservative estimate places its monthly gold and silver recovery at where the quartz came to the surface, ment of the rich gold zone at Gold-\$8,000, but the setual figures are prob- that the diorite was highly sillisified field following the Mohawk strike. ably much greater. Estimates of the and of a schistose character. value of the ore blocked out run as high as \$6,000,000.

If the Green Monster company does be made by the Diamond Drills on the take over the Copper Chief, Will L. property and men are continually beto make on the Extension smelter or Clark, who recently resigned as maning kept at work prospecting the dip of the bedding plane of the schist on the proposed railroad from Clark- ager of the United Verde, will be in ground. Mr. Bethune further states is toward the east, and pay ore has dale south through the Verde valley charge there for a time at least. More that he expects as fine a grade of ore to Mesa, now being surveyed. He attention will be paid to marketing will be obtained from this drilling, as stated that the location of the smelter the copper ore. Near the surface the is being mined in the district. values are chiefly gold but the copper

annual statement, to be issued about night with 17 precincts missing out continuation of the high line road. A feature of this demand is the of 5,870 in California the vote for into the adjoining properties of the avidity with which the local public the president stood: Hughes, 462.828; Copper Chief and Green Monster is buying the shares, and often to the entire range from near deronino, some sixty miles to the southeast, to Super present bre reserves of the Extension Wilson, 466,106. Wilson's plurality, claims. This road when repaired will exclusion of the outside public. It is

Present Boom in the Northern County Not Been Equaled Since the Golden Days of Mohawk in Goldfield, Nev.

INTEREST CENTERED IN JEROME DISTRICT

(By William P. De Wolf) PRESCOTT, Arizona, Nov. 11.-Developing mineral wealth and making mining history to an accompaniment of sensational incident such as has had no counterpart since the golden riches of the Mohawk mine at Goldfield, were first unearthed, is the daily occupation of the mining men of Yavapai county. At Goldfied a single string-gold-drew the mine makers of yesterday to the treasure cach-Chief mine had been satisfactorily pairing the buildings, overhauling ma- lead and zinc-are drawing the mine concluded, which first became cur- chinery and otherwise making prelim- makers of today and tomorrow to a unsurpassed mineral

JEROME, Nov. 11.-About a dozen

from this shoot.

on the surface

There are numerous outcrops on

peacock copper and sulphides right

EXPLORE THE GROUND

FOR THE U. V. CON. CO.

This find will undoubtedly be made

make a splendid thoroughfare

The Crown King, Copper Basin, Tip No detailed plans for developing of mining interest and commands the

some beautiful ore said to have come a producer of high grade copper ore, stand in a class by itself

Verde district what the strike of a decade ago in the Mohawk mine did for the Goldfield district. As with Mohawk stock, so with Little Daisy stock, there was a time when it went begging. As it rested with the Mohawk to point the way to the bonanca gold ore deposits of the Goldfield district, so it rested with the Little Daisy to point the way to the bonanza copper ore deposits of the Verde dis-Consulting Engineer George A. trict. As the Mohawk indicated to Bethune has returned from a trip over the mining world the great money the United Verde Consolidated group making opportunities of the Goldfield of claims near Jerome and brought district, so the Little Daisy has demwith him several fine specimens of onstrated similar opportunities in the treating some 130 tons of ore a day. iron stained quartz showing heavy in Verde district. Millions of dollars copper. Mr. Bethune states that are now available for the develop-

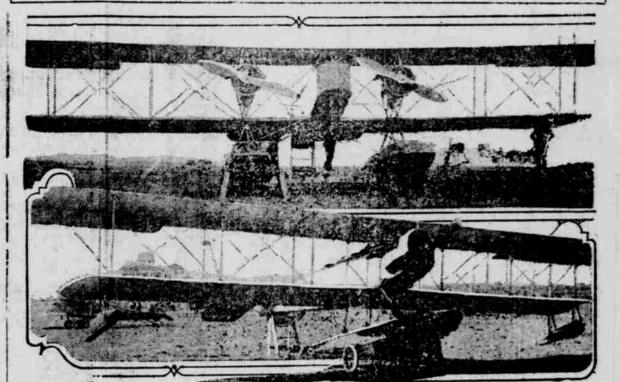
> Interest is increasing The rapid and marked advance in (Little Daisy) shares, has electrified the investment world. A few years ago they were without price. Less than two years ago they were selling are selling at \$40 per share and upestablished a market for the entire

United Verde Extension Holds a Similar Position in Arizona to What Mohawk Did to Esmeralda County, Nev.

The "Little Daisy" (United Verde thoroughly and completes his plans. Extension) mine in the Verde dis-It is known, however, that the 1400- trict, occupies a position in the mig-Managing Director W. S. Humbert all foot tunnel on the Moscal is to be ing affairs of Yavapai county relasay that there is nothing in the story. driven forward with all possible tively similar to that held by the Mo-Evidently, however, there is a wide speed. Eight hundred feet in from hawk mine in the affairs of Esmeralin the vernacular-the Little Daisy is The machinery on the Black Hills as strong a "soda" card to play in the consummation. There is no other ex- group is to be used for the present. mining game as was formerly the Moplanation for the advance in Green It is expected that little time will be hawk. You can "copper" that bet all lost in unwatering the Black Hills the way through the deal and win evshaft, which is down 670 feet. Ac- ery turn out of the box; for the Little cording to an old report in the pos- Daisy is probably the richest copper session of the Combination officers, mine in the world. As did the Mowill offer 200,000 shares of stock on this shaft cut nine feet of sulphide bawk, as a producer of high grade at 630 feet. On the dump there is gold ore, so does the Little Daisy, as

The strike of some months ago in

the starting point for the first hole to the price of United Verde Extension at 40 cents per share. Today they He also reports that several men ward. United Verde Extension has and teams will be put at work imlist of Verde district coppers. The mediately, to level up the road leading from the main traveled county demand for them, is increasing and IN CALIFORNIA. road direct to the main camp on the their prices are advancing in the face SAN FRANCISCO, Nov. 11.—At mid- company's property, which road is a of new promotions and of profit-taking



UNCLE SAM TO STRENGTHEN NAVY WITH POWERFUL NEW AEROS

The aerial tractor J N (top) and the hydroplane N 9.

The naval aeronautical board has accepted the model known as N 9, a 100-horsepower single-pontoon hydroplane, as the first of thirty machines to be built by the Curtiss company near Newport News, Va. Minor modifications will be made in the other twenty-nine machines. The navy has also approved the J N, a Curtiss aerial tractor of the twin-pontoon, twin-engine type. It develops 200-horsepower.

VERDE EXTENSION

JEROME, Nov. 11.-George Kingdon s not to be superintendent of the the negotiations of the Green Monster men are now working on the Verde in Yavapai county a half-dozen United Verde Extension and there is company for control of the Copper Combination property. They are re- strings-copper, gold, silver, tungsten 200 feet below the 1400-foot level,

These important statements were made this week by President James S. Douglas upon his arrival from the southern part of the state. He expects to remain at the property some

eycept Jerome, that George Kingdon, controls the Copper Chief. superintendent of the Cananea Consolidated and one of the highest-priced Dave Morgan in charge of operations wired out from Prescott the news that after Morgan goes over the ground at the Extension. "There never has the deal had been concluded. Mr.

No successor to Mr. Morgan, whose contract took effect November 1, has been selected, according to Mr. Doug- belief in the east that the Green the portal this tunnel passes through da county, Nevada. That is to saylas. For the present Dick Kingdon, a Monster-Copper Chief deal has been a five-foot vein of sulphide ore. brother of George Kingdon and long Mr. Morgan's right-hand man, will be in charge at the Extension.

The winze, started 1000 feet south of the Edith shaft on the 1400, has been sunk to 200 feet, its contemplated depth, and work therein has ceased. This winze was in ore down to the 1500 and for the next 60 feet t passed through a horse of rock.

"The horse means nothing." reoccurrences in almost every ore body. cial position, for it already has somemarked Mr. Douglas. "There are such There is ore in the bottom of the winze.

"Is the bottom all in ore?" "Not entirely."

"But indications point to solid ore on all sides." "I am confident that such is the

No start has been made on the new hoisting shaft, to be sunk 200 feet east a body of \$100 copper and gold ore of the Edith, but President Douglas hopes that it can be compelted soon. drift has been run in this ore for 70 There has been some delay in getting feet. No crosscut has been run so the the shaft started, but the delay is not

serious. Shipments of ore from the Exten sion vary from day to day. They depend entirely upon the number of ward toward the east, generally speak- freight cars that can be secured. Some ing. The drill hole is in a practically days as many as eight carloads of ore per are shipped to the Humboldt, Old Dominion, C. & A. and Copper Queen smelters. Other days only five or six cars move forward.

President Douglas had no comments had not been determined. With the dividend checks that will values increase with depth.

ures are likely to be included in the

Eastern authorities estimate at 1,518,000 tons.